

THE UNITED STAYIES OF ANTERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Gyperformer Beed Company

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT LAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'HSC Baldwin'

In Eastimony Withercot, I have hereunto set my hand and caused the seal of the Elaut Variety Exotection Office to be affixed at the City of Washington, D. C. this 30th day of November in the year of our Lord one thousand nine hundred and eighty-eight.

(Victory of Assiculture

Aller

Kenneth HEan

Plant Variety Protection Office Agricultural Marketing Service

U.S. DEPARTMENT	FORM APPROVED: OMB NO. 0581-0055			
APPLICATION FOR PLANT VARI	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued			
(Instruction	s on reverse)		(7 U.S.C. 2426).	
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION	3. VARIETY NAME	
HYPERFORMER SEED COMPANY		HB-15578-E4-6	HSC Baldwin	
4. ADDRESS (Street and No. or R.F.D. No., City, State	te, and Zip Code)	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY	
Suite 3200, Clark Tower		800-238-7174	PVPO NUMBER	
5100 Poplar Avenue		901-761-0050	l 8800146	
Memphis Tennessee 3813		<u> </u>	DATE	
OLIVOS AND SI ECIES IVANIE	7. FAMILY NAI	ME (Botanical)	l	
Glycine max	Legumin	iosae	May 9, 1988	
	cgamii.	10540	1:30 A.M. 1/P.M.	
8. KIND NAME	9.	DATE OF DETERMINATION	AMOUNT FOR FILING	
Soybeans	1	T 1007	a \$ 1800	
Soybeans		June 1987	2/988 PATE 3/988	
	·		DATE DATE AMOUNT FOR CERTIFICATE	
 10. IF THE APPLICANT NAMED IS NOT A "PERSO partnership, association, etc.) 	N," GIVE FORM	OF ORGANIZATION (Corporation,	8 1 2000	
			\$ 20000 L DATE	
Corporation			Oct. 24,1988	
11. IF INCORPORATED, GIVE STATE OF INCORPO	PATION		12. DATE OF INCORPORATION	
Delaware	•		1977	
13. NAME AND ADDRESS OF APPLICANT REPRES	SENTATIVE(S), I	F ANY, TO SERVE IN THIS APPLIC	ATION AND RECEIVE ALL PAPERS	
Dr. George A. Berger			•	
Eagle Seed Company				
P.O. Box 308		PHONE (Include are	ea code): 501-684-7377	
Weiner, Arkansas 72479 14. CHECK APPROPRIATE BOX FOR EACH ATTAC	HMENT SUBMIT		301-004-7377	
a. Exhibit A, Origin and Breeding History of			tection Act.)	
b. Exhibit B, Novelty Statement.		-		
c. Exhibit C, Objective Description of Variet	y (Request form	from Plant Variety Protection Offic	:e.)	
d. 🔯 Exhibit D, Additional Description of Varie	ety.			
e. Exhibit E, Statement of the Basis of Appl				
15. DOES THE APPLICANT(S) SPECIFY THAT SEE SEED? (See Section 83(a) of the Plant Variety Pro			tems 16 and 17 below) No	
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE	17. IF "YES" TO ITEM 16, V BEYOND BREEDER SEE	WHICH CLASSES OF PRODUCTION D?	
Yes X No		Foundation	Registered Certified	
18. DID THE APPLICANT(S) PREVIOUSLY FILE	FOR PROTECTI	ON OF THE VARIETY IN THE U	S.? Yes (If "Yes," give date)	
		4	Yes 11 Fest, give date)	
			₽ No	
10. HAO THE WARRETY FEET FOR FACES OFFE	ED EOD OALE	OR MARKETER IN THE U.S. CO.	<u> </u>	
19. HAS THE VARIETY BEEN RELEASED, OFFER	SED FOR SALE,	OR MARKETED IN THE U.S. OR	OTHER COUNTRIES? Yes (If "Yes," give names	
Limited test market in t	he II S	in June 1997	of countries and dates)	
-amirod cope market in c	ne 0.5.	in dune 1987.	☐ No	
20. The applicant(s) declare(s) that a viable samp plenished upon request in accordance with su	ole of basic seeds	s of this variety will be furnished	with the application and will be re-	
The undersigned applicant(s) is (are) the own	-		iety, and believe(s) that the variety is	
distinct, uniform, and stable as required in Se Variety Protection Act.	ection 41, and is	s entitled to protection under the	e provisions of Section 42 of the Plant	
Applicant(s) is (are) informed that false repre	esentation herei	n can jeopardize protection and	result in penalties.	
SIGNATURE OF APPLICANT			DATE	
h a P.			April 15, 1988	
_ / Learge U. Delra	2/			
SIGNATURE OF APPAICANT			DATE	
÷			1	

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY BALDWIN

HSC Baldwin was a single $\rm F_4$ plant selection from the cross OP 76-622 X Bedford. OP 76-622 was a $\rm F_4$ single plant selection from the cross of Forrest X Essex.

- 1. This plant was selected at Weiner, Arkansas, in 1981. Seed yields was in the top 10% of all plants selected including check varieties. Preliminary yield trials were conducted in 1982 and 1983 at Weiner, Arkansas. This line exceeded the yields of each of the two check varieties Forrest and Centennial in both years of the trials. A small increase was started in 1984.
- 2. Advanced trials were conducted in 1985, 1986 and 1987. Yield was sufficient to increase this line in 1986 and 1987.

YIELD SUMMARY

NAME OF VARIETY	1985 ARKANSAS	1985 GEORGIA	1986 ARKANSAS	1986 GEORGIA	1986 S.CAROLINA	1987 ARKANSAS	1987 M <u>I</u> SS.
HSC BALDWIN	42	38	37	41	27	33	25
CENTENNIA	AL 36	38	38	42	25	30	25

¹⁹⁸⁵ Arkansas and 1985 Georgia data taken at one location in each state.
1986 and 1987 Arkansas and 1987 Mississippi data are averages over 11
locations respectively.

3. HSC Baldwin has been rouged for offtypes in the vegetative state. Seed will have an occassional (.02%) buff hila types. Seed coat will occassionally show a greenish color, especially under late planting.

¹⁹⁸⁶ Georgia data is 6 location average.

¹⁹⁸⁶ South Carolina data is 3 location average.

4. Other variances which are also acceptable and predictable are white flower color 1/5000 and grey pubescence 1/7000. These characters are stable and can be maintained and reproduced through seed without changing as has been exhibited in three generations of increase.

EXHIBIT B

NOVELTY STATEMENT

HSC Baldwin appears most similar to the Centennial variety. It is novel in the following characteristics.

1. Soybean cyst nematode reaction to SCN races 2,3,5, and to an unknown race which reacted differently on the differentials than any presently defined race and is designated as "race undefined" (RU) and is given in the following table and indicates that HSC Baldwin and Centennial react differently to different SCN races.

REACTION OF SOYBEAN CULTIVARS TO FOUR RACES OF SOYBEAN CYST NEMATODES

NAME OF VARIETY	R2	R3	R5	RU <u>1/</u>
HSC Baldwin	62	11	33	17
Centennial	104	.2	55	18

This race has been described and proposed to be designated as race 6. Official designation and publication of the description has not been made.

Cyst Nematode screening performed by Dr. R.W. Riggs, Department of Plant Pathology, College of Agriculture, University of Arkansas, Fayetteville, Arkansas.

This table shows the reproduction index which is calculated by dividing the average number of cysts counted on the variety by the average number of cysts counted on a susceptable check cultivar, usually Lee.

- 2. HSC Baldwin has shiny seed coat luster and Centennial has dull seed coat luster.
- 3. HSC Baldwin averages approximately 4 days earlier than Centennial over many test locations.
- 4. The foliage of HSC Baldwin is darker green than the yellow green of Centennial.

EXHIBIT B

NOVELTY STATEMENT

The ISCC-NBS (Inter-Society Color Council-National Bureau of Standards) Centroid Color Chart, No. 2106, was used to determine leaf (foliage) color of fully expanded leaves from HSC Baldwin and Centennial soybeans.

Paired comparison data from foliage samples of three replications for each variety at two growth stages was taken. Since the same color determinations were found in each replication, data for replications is not shown. However, data for the two growth stages, (R1, R5), is shown to indicate color consistency during the growing season. These data are summarized in the following table.

GROWTH STAGE

R 1

R 5

HSC BALDWIN

127.gy.OL G

127.qy.OL G

CENTENNIAL

125.m.OL G

125.m.OL G

Foliage colors of the two varieties were clearly different and consistent across the two growth stages studied.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEA	AN (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
HYPERFORMER SEED COMPANY	НВ-15578-Е4-6	HSC Baldwin
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod Suite 3200, Clark Tower 5100 Poplar Avenue Memphis, Tennessee 38137	(e)	FOR OFFICIAL USE ONLY PVPO NUMBER 8800146
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided, Starred characters are considered fundamental to an adequate when information is available. 1. SEED SHAPE:	place a zero in the first box v	when number is 9 or less (e.g., 0 9).
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	4 = Elongate Flattened	(L/W ratio > 1.2; L/T ratio = < 1.2) (L/T ratio > 1.2; T/W > 1.2)
7 2. SEED COAT COLOR: (Mature Seed)		*
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		to the control of the
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	y'; 'Gasoy 17')	· · · · · · · · · · · · · · · · · · ·
4. SEED SIZE: (Mature Seed)		
1 3 Grams per 100 seeds		and the control of th
5. HILUM COLOR: (Mature Seed)	The state of the s	
6 1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
1 1 = Low 2 = High		en e
8. SEED PROTEIN ELECTROPHORETIC BAND:		
$\boxed{0} \qquad 1 = \text{Type A (SP1}^{\text{a}}) \qquad \qquad 2 = \text{Type B (SP1}^{\text{b}})$		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green with 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'C	bronze band below cotyledons (" Coker Hampton 266A")	Woodworth'; 'Tracy')
0. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

•	. LEAF	FLET SIZE:		e de la companya de l La companya de la co	The second s	e de la companya del companya de la companya del companya de la co	
	2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')		m ('Corsoy 79'; 'Gas	*		
12	. LEAF	COLOR:	and the particle of the second		ing sa		
	2	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Mediu	m Green ('Corsoy 79	'; 'Braxton')		
13	FLOW	VER COLOR:				· · · · · · · · · · · · · · · · · · ·	
e. Pr	2	1 = White 2 = Purple	3 = White with	n purple throat	er en en en en		
14	POD	COLOR:					•
	1	1 = Tan 2 = Brown	3 = Black	and the second second			· · · · · · · · · · · · · · · · · · ·
15	PLAN	T PUBESCENCE COLOR:					
No.	2	1 = Gray 2 = Brown (Tawny)		en e			
16.	PLAN	T TYPES:					
	3	1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Interme	ediate ('Amcor'; 'Bra	xton')	en jaron en	
		3 = Indeterminate ('Nebsoy'; 'Improved Pel	ican /				
18.	MATU 9	RITY GROUP: 1 = 000	4 = I	5 = II 6 = I)	11 - 1	8 = V	and the second s
18.	MATU 9			5 = II 6 = I) 13 = X	M -	8 = V	And the second s
0	9	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII	12 = IX	13 = X	an ilian kanangan kanangan kanangan kanan	8 = V	
0	9 DISEA	1 = 000 2 = 00 3 = 0	12 = IX	13 = X	an ilian kanangan kanangan kanangan kanan		
0	9 DISEA	1 = 000	12 = IX Susceptible; 2 = Resi	13 = X			
0	9 DISEA	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va	12 = IX Susceptible; 2 = Resi	13 = X			
0	9 DISEA	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea)	12 = IX Susceptible; 2 = Resi	13 = X			
0	9 DISEAL BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci)	12 = IX Susceptible; 2 = Resi	13 = X			
0	9 DISEAL BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES:	12 = IX Susceptible; 2 = Resi	13 = X			
0	9 DISEAL BACT	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines)	12 = IX Susceptible; 2 = Resi	13 = X			
0	POISEAL R R R R O	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)	12 = IX Susceptible; 2 = Resi	13 = X			
0	P P P P P P P P P P P P P P P P P P P	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 R Rac	12 = IX Susceptible; 2 = Resi	13 = X			
0	POISEAL R R R R O	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)	12 = IX Susceptible: 2 = Resi r. sojensis) ce 3	13 = X istant) ace 4			
0	P P P P P P P P P P P P P P P P P P P	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 R Rac Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var	12 = IX Susceptible: 2 = Resi r. sojensis) ce 3	13 = X istant) ace 4	ce 5 Othe		
0	P P P P P P P P P P P P P P P P P P P	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII SE REACTION: (Enter 0 = Not Tested; 1 = S FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli va Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 R Rac Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var	12 = IX Susceptible; 2 = Resi r. sojensis) ce 3	13 = X istant) ace 4	ce 5 Othe		

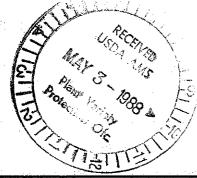
FORM LMGS-470-57 (6-83)

19.	DISEA	SE REACTIO	N: (Enter 0 = Not	Tested; 1 = Susceptible; 2 =	Resistant) (Continued)	- All Control of the	The second secon				
	FUN	GAL DISEAS	SES: (Continued)								
*	R	Pod and Ste	em Blight <i>(Diaporthe</i>	e phaseolorum var; sojae)							
	R	Purple Seed	l Stain <i>(Cercospora k</i>	cikuchii)							
	Rhizoctonia Root Rot (Rhizoctonia solani)										
		Phytophtho	ога Rot <i>(Phytophtho</i>	ra megasperma var. sojae)							
*	0	Race 1	0 Race 2	R Race 3	Race 4	ice 5 Race 6	Race 7				
	0	Race 8	0 Race 9	Other (Specify)							
	VIRA	L DISEASES	S:			•					
	0	Bud Blight (Tobacco Ringspot \	/irus)			•				
:	0	Yellow Mosa	aic (Bean Yellow Mo	osaic Virus)	•						
*	0	Cowpea Mos	saic (Cowpea Chloro	tic Virus)							
	0	Pod Mottle (Bean Pod Mottle Vi	rus)							
*	0	Seed Mottle	(Soybean Mosaic Vi	rus)							
	NEMA	TODE DISE	ASES:	•	e.						
		Soybean Cys	t Nematode (Hetero	odera glycines)							
*	R	Race 1	S Race 2	R Race 3 S	Race 4 Oth	ner (Specify)					
		Lance Nema	tode (Hoplolaimus (Colombus)			•				
*	R	Southern Ro	ot Knot Nematode ((Meloidogyne incognita)							
*		Northern Ro	ot Knot Nematode ((Meloidogyne Hapla)							
	R	Peanut Root	Knot Nematode (M	eloidogyne arenaria)							
	=	Reniform Ne	matode <i>(Rotylench)</i>	ılus reniformis)							
. i	H ,	OTHER DISE	EASE NOT ON FOR	RM (Specify):							
			·								
20. PI	HYSIOL	OGICAL RE	SPONSES: (Enter (0 = Not Tested; 1 = Suscep	tible; 2 = Resistant)						
*	ا ك	ron Chlorosis	s on Calcareous Soil								
ļ		Other (Specif	y)								
21. IN	ISECT F	EACTION:	(Enter 0 = Not Test	red; 1 = Susceptible; 2 = Re	sistant)						
	0 1	/lexican Bean	Beetle (Epilachna v	erivestis)	and the same of th		1 19 M				
	0 _P	otato Leaf H	opper (Empoasca fa	.61							
Ī		ther <i>(Specif</i>)			igni i teknologija i molodini i poloni i molodini i mol		<u></u>				
2. IN			<u> </u>	SELY RESEMBLES THA	F SURMITTED		and the state of the section of the section				
	CHARA		Ĭ	OF VARIETY	CHARACTER	NAME OF	VARIETY				
	nt Shape	<u></u>	Centennia		Seed Coat Luster	Bedford	The second secon				
Ĺ.ea	af Shape		Jeff		Seed Size	Gordon					
Lea	f Color		Jeff	W. W. (340)	Seed Shape	Bedford					
Lea	f Size		Jeff		Seedling Pigmentation	77 TM2 EGY					
1 6 143		Service Services		Service of the Commission of t	i di kacamatan di dalam katamatan di kacamatan di kacamatan di kacamatan di kacamatan di kacamatan di kacamata	a di en con	1				

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CON	TENT	SEED SIZE G/100	NO. SEEDS/
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
ISC Baldwir	134	1.8	119	0	0	0 · · ·	0	13.0	0
ente naia l	138	1.0	107	12.3				15.2	w

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.



ADDITIONAL DESCRIPTION OF THE VARIETY

NAME OF VARIETY		FLOWER				Ht.	Lod.	Type Shape	Type Plant Habit
HSC Baldwin	Tan	Purple	TN	Black	VI	47"	2	1	Determinate
Centennial	Tan	Purple	TN	Black	VI	42"	2	1	Determinate

HSC Baldwin is a medium tall, bushy variety in the mid to late group VI maturity. It features good standability, purple flowers, tan pods, and tawny pubescence. The foliage is dense with medium-sized leaves, medium green in appearance. Seed is yellow with black hila and shiny seed coat luster. However, variation is noticeable due to varied environmental effects.

EXHIBIT E

STATEMENT OF THE BASIS OF APPLICANTS OWNERSHIP

HSC Baldwin was bred and developed by Dr. George A. Berger, who will serve as the applicant representative for Hyperformer Seed Company. Exclusive marketing rights are assigned to Hyperformer Seed Company by Dr. George Berger.